

# Tilt input device

## Abstract of Disclosure

The invention herein is an input device for a graphic display, where cursor movements are controlled using pitch and roll rotations of the device by the user. Pitch rotational input corresponds to cursor movement along the vertical Y axis of the graphic display, and roll rotational input corresponds to cursor movement along the horizontal X axis. The top side and bottom side of the housing are cubic curved to allow for comfort to the user and ease of rotating device. The device of the invention can operate on all surfaces and in freespace. The invention includes angular displacement sensing methods for two types of technologies in common use, rotary encoder sensors and optical position tracking sensors. One embodiment of the invention allows the user to select the axis vertical axis from which the sensors will measure angular displacement. This feature will allow the device to be operated at multiple angles; traditionally, as on a desktop surface in the horizontal plane, and at custom positions, such as holding the device angled down by one's side or with their arms crossed.



## Figures